CDC ORISE Fellow - Position announcement

Radiation Bioassay Laboratory located in Atlanta, GA

This job opportunity is for an ORISE (Oak Ridge Institute for Science and Education) Fellow participant in the Inorganic and Radiation Analytical Toxicology branch at the Centers for Disease Control and Prevention in Atlanta, Georgia. The fellow will use Alpha/Actinide Radiochemistry and Counting techniques, High Purity Germanium (HPGe) and Sodium Iodide (NaI[Tl]) Gamma analysis techniques, Liquid Scintillation and Gas Flow Proportional Counting (LSC & GFPC), Inductively Coupled Plasma Mass Spectrometry (ICP-MS) and other technologies applied to the detection, identification and quantification of radionuclides in human clinical samples. The researcher will be involved in the development of new analytical methods, or enhancement of existing CDC or other accepted analytical methods, and running such methods.

Requirements:
Advanced degree (awarded in the past 5 years) in Radiochemistry or Analytical Chemistry, with specialized experience/knowledge in the theories and principles of radiochemistry, radio-analysis and/or inorganic chemistry. Alpha, Gamma, LSC and GFPC radiochemical, radioanalytical and counting experience preferred. ICP-MS with experience in reaction/collision cell technologies coupled to ICP-MS beneficial. Good candidates will possess a strong background in independent use of laboratory instrumentation, good laboratory techniques, experience with routine laboratory analysis and reporting, use of appropriate quality assurance and quality control measures, and have strength in method troubleshooting.

Duties to be performed:
Fellow will research, develop, validate, and use advanced radioanalytical and radiochemistry techniques, methods, and instrumentation, and provide assistance in such efforts, for the analyses of human clinical matrices (urine) for radionuclide content related to environmental health and/or radiological terrorism public health response. Specifically, radioanalytical techniques such as Alpha Spectrometry, Gamma Spectrometry, LSC, GFPC and ICP-MS will be used in these processes. Fellow will organize and carry out basic and applied research (and/or aid in these efforts) directed toward resolution of complex problems requiring a good understanding of the advanced radiochemical and radioanalytical laboratory methods associated with the analysis of radionuclides to assess internal contamination for use in evaluation of health risk or potential harm. Fellow will review scientific literature, formulate research plans, conduct laboratory experiments, interpret and evaluate results, data and other findings, and write reports describing the results and conclusions. The fellow will accomplish qualitative and quantitative analytical determinations using a variety of highly technical laboratory equipment/techniques such as alpha spectrometry, gamma spectrometry, LSC, GFPC, high performance liquid chromatography, gas chromatography, ICP-MS or other advanced radioanalytical techniques. The fellow will apply these procedures and techniques to human clinical samples from investigations of various populations to provide data for health risk assessment and disease definition.

CDC has an immediate need for a person to fill this position.

Salary range is $50,000 to $62,000 per year based on education and specialized experience.

Contact:

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